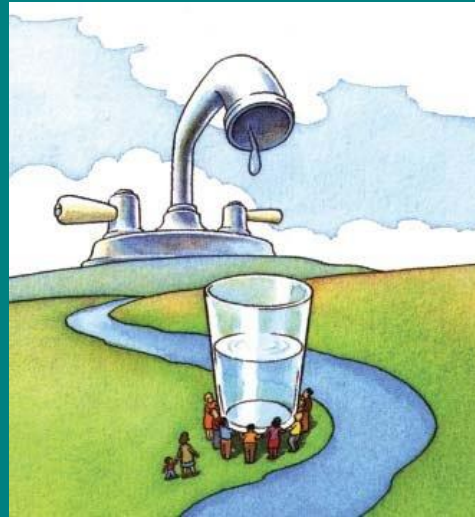
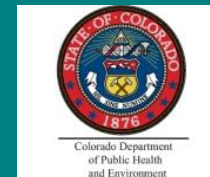


# Source Water Protection Plan

## City of Idaho Springs



Mark Williams  
Source Water Specialist  
Colorado Rural Water Association



# Sign In

# AGENDA

## **I. Welcome and Introductions**

What is Source Water Protection  
Role of CRWA and participants

## **II. Developing a Source Water Protection Plan**

Process of developing a plan and timeline  
Stakeholders list and contact information  
CDPHE grant

## **III. Delineation of the Source Water Protection Area**

## **IV. Information Sharing**

Community Water System  
Known information about the SWPA

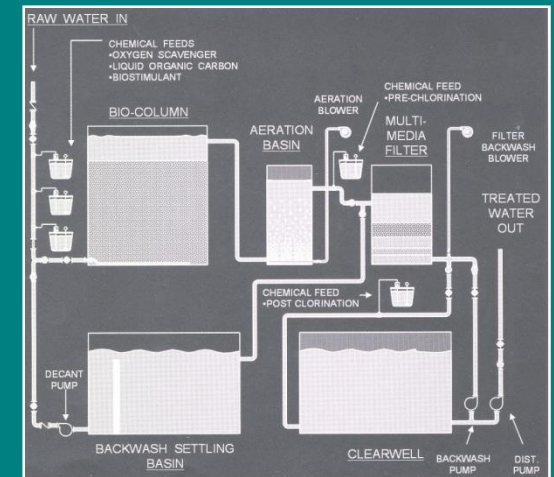
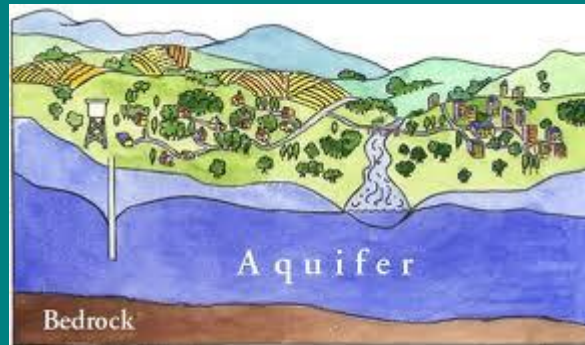
## **V. Set next meeting date and agenda**

# WHAT IS SOURCE WATER PROTECTION?

A local proactive approach to preventing the pollution of the surface water that serves as your drinking water source.

# Source Water Protection

A Multi-Barrier Approach  
to provide safe drinking water



“Source water protection was founded on the concept that informed citizens, equipped with fundamental knowledge about their drinking water source and the threats to it, will be the most effective advocates for protecting this valuable resource”





# Why Protect Your Drinking Water?

- To protect a valuable resource
- To protect public health
- To reduce risk of contamination
- To reduce cost for treatment
- To avoid expensive clean up costs
- To coordinate land use
- Obtain funding with grants (\$5,000 SWP Grant)

# Other Economic Benefits of Protecting Your Drinking Water Source

- Protects real estate values
- Encourages business development
- Secures tax revenues
- Increases job opportunities
- Improves recreation and tourism revenue

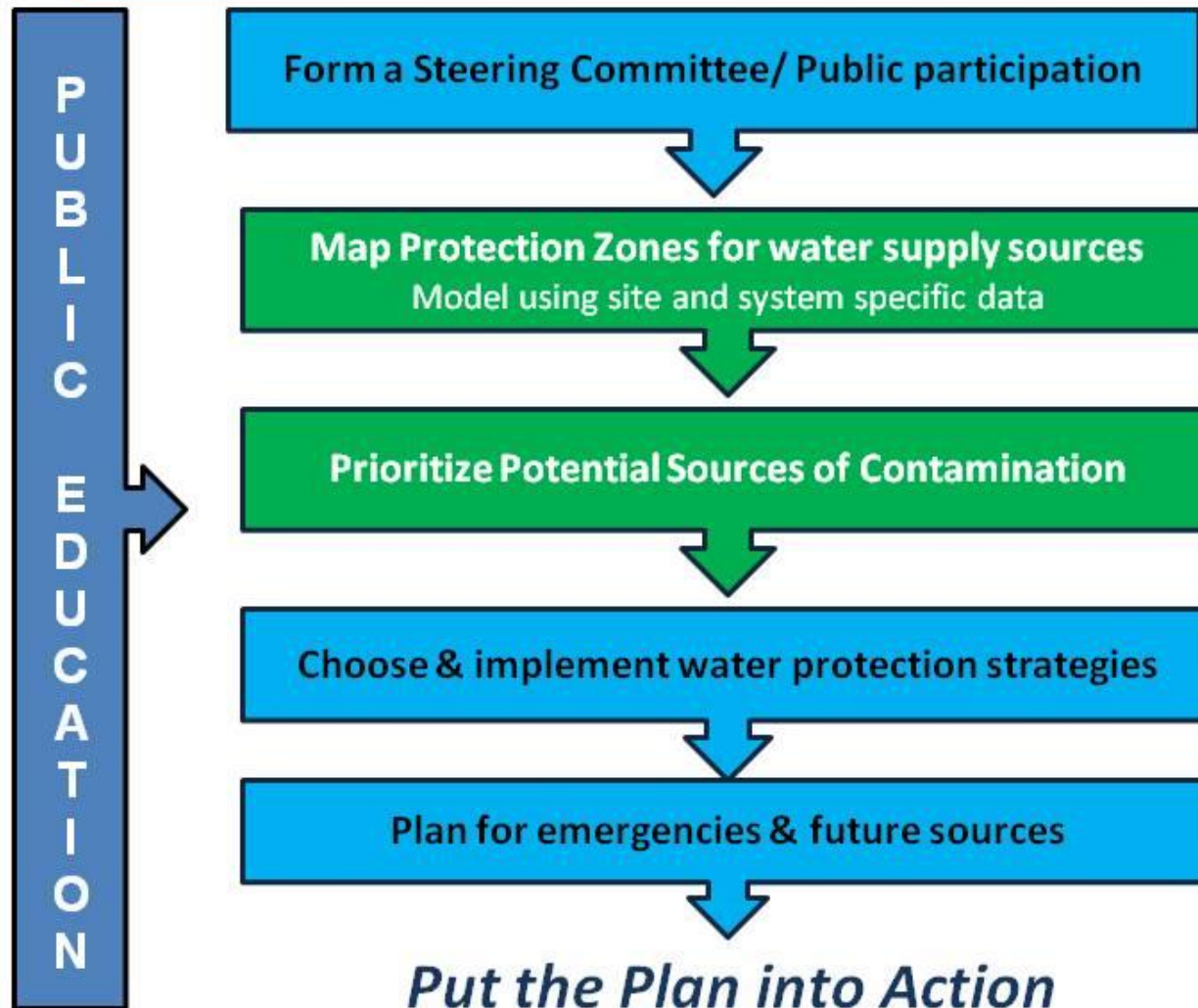


# Role of CRWA's Source Water Team

- Work with Town to identify potential stakeholders & send meeting invitations/notifications
- Facilitate planning meetings and communicate with stakeholders
- Assist with mapping of intakes, source water protection areas, and potential contaminant sources
- Provide guidance on Best Management Practices
- Develop the Source Water Protection Plan document
- Provide technical assistance for the State grant
- Serve as a consultant to the Town in implementing the protection plan

# *Drinking Water Protection 5 Step Model*

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# Steps and Timeline for Developing Idaho Spring's SWPP

June  
2016

- 1<sup>st</sup> Stakeholders Meeting
- Form Steering Committee, Review State's Assessment, Delineate Source Water Protection Area

July  
2016

- 2<sup>nd</sup> Stakeholders Meeting
- Inventory of Potential Contaminant Sources

Aug..  
2016

- 3<sup>rd</sup> Stakeholders Meeting
- Develop Best Management Practices

Sept.  
2016

- Write Draft Source Water Protection Plan

Oct.  
2016

- 4<sup>th</sup> Stakeholders Meeting
- Review and Edit Draft Plan

Nov.  
2016

- 5<sup>th</sup> Stakeholders Meeting
- Steering Committee meeting to implement Final Plan

## **CDPHE Source Water Protection Development and Implementation Grant**

- Awarded to community public water systems who committed to developing source water protection plan.
- Grants up to \$5,000 will be awarded for plan development and for implementation.
- A one to one financial match (cash or in-kind) will be required.
- Grant timeframe: 2 years



## Stakeholders Invited to First Meeting

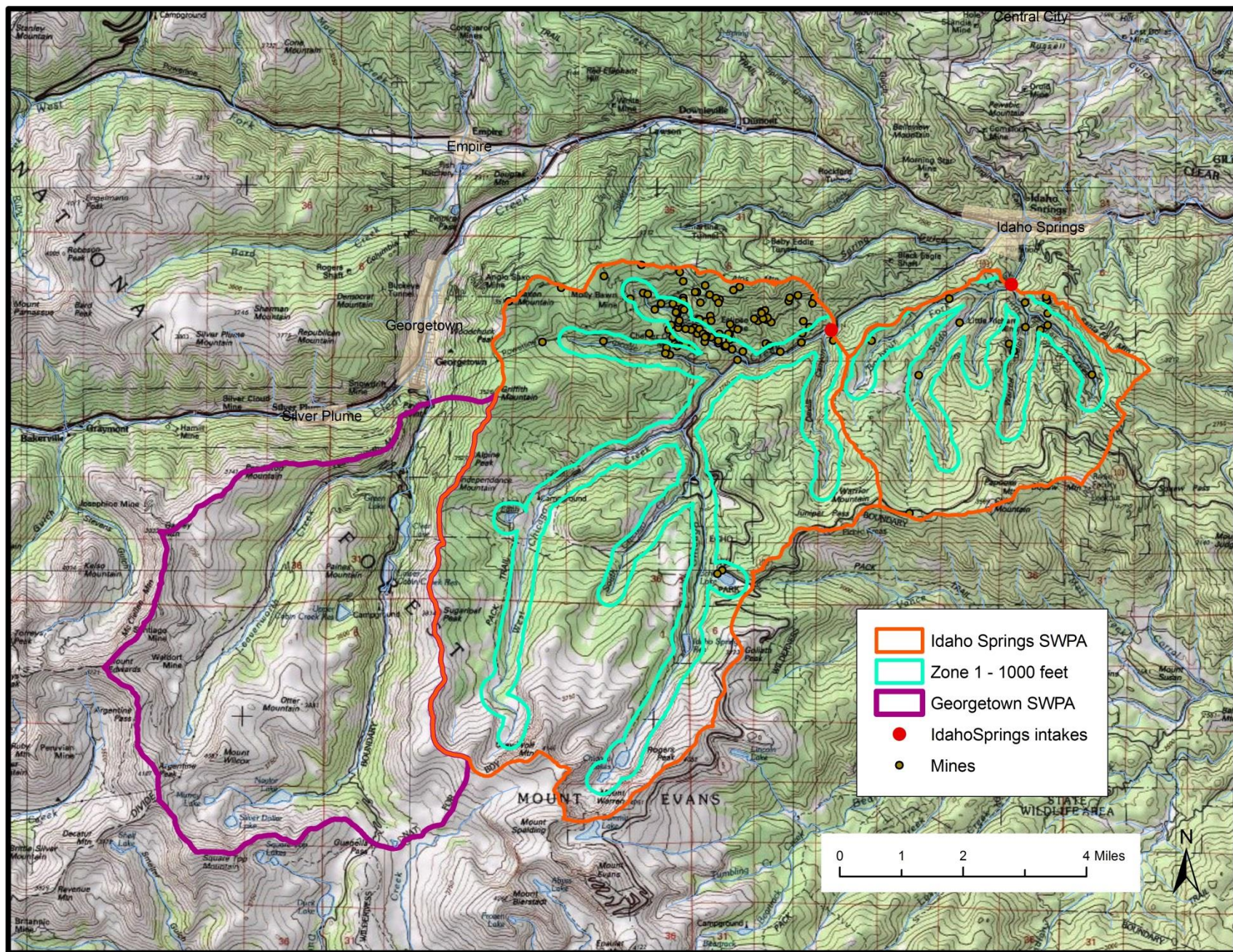
Phyllis	Adams	Upper Clear Creek Watershed Association	
Smoky	Anderson		Clear Creek County Open Space
Mary	Boardman		CDPHE
John	Bordoni	Public Works Director	City of Idaho Springs
James	Boswell		City of Thornton
Bob	Bowland	City Council	City of Idaho Springs
Kelly	Cline	Source Water Specialist	Westminster
Kate	Collier	City Council	City of Idaho Springs
John	Curtis	City Council	City of Idaho Springs
Denise	Deese	City Council	City of Idaho Springs
Cindy	Dicken	Director Health & Human Services	Clear Creek County
Mary	Fabisiak		City of Westminster
Jim	Ford		City of Blackhawk
Charlotte	Hampson		Clear Creek Environmental Health
Michael	Hillman	Mayor	City of Idaho Springs
David	Holm	Executive Director	Clear Creek Watershed Foundation
Lisa	Leben	Special Projects Director	Clear Creek County
Andy	Marsh	City Administrator	City of Idaho Springs
Tim	Mauck	Board of Commissioners	Clear Creek County

## Stakeholders Invited to First Meeting (continued)

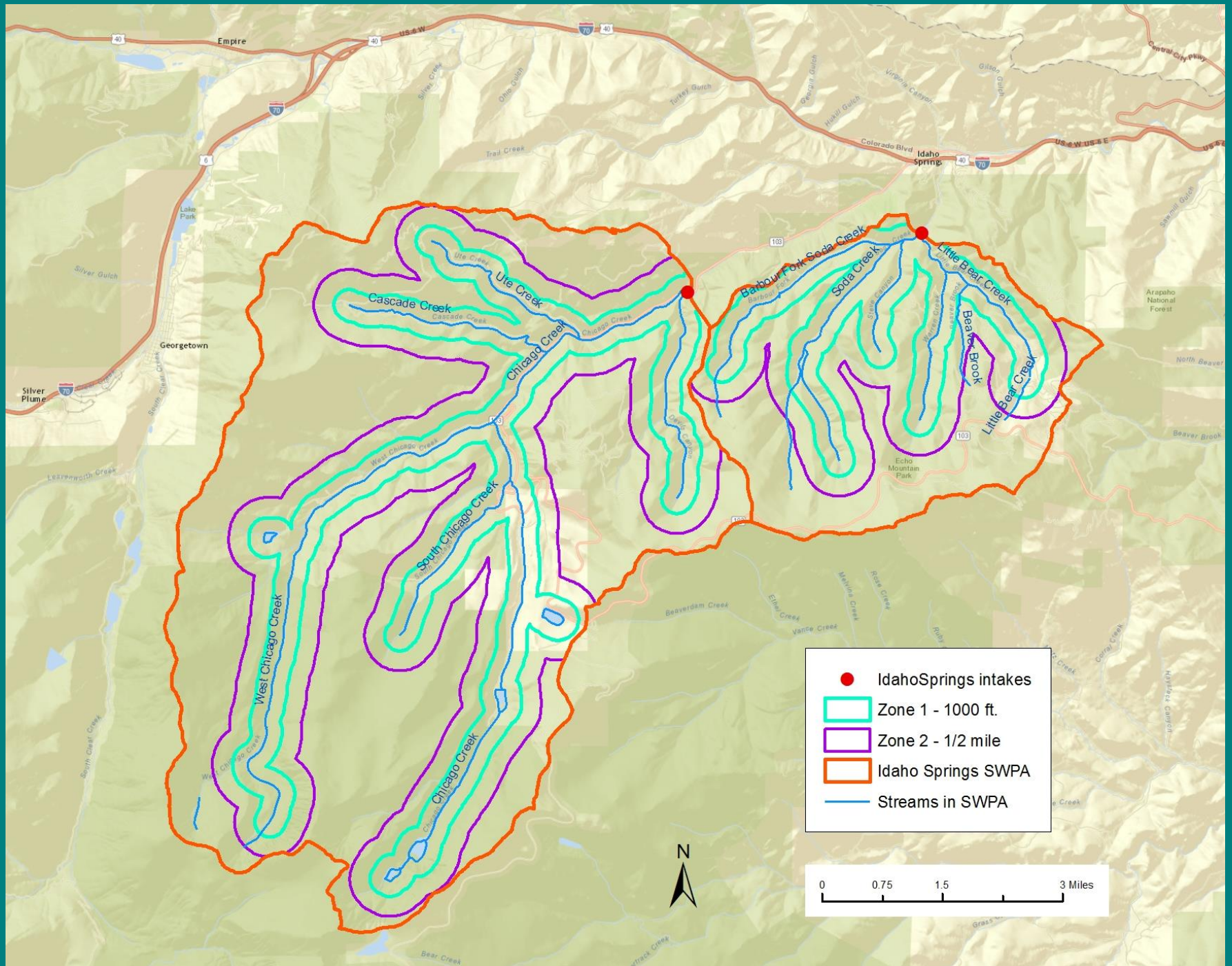
Bill	Mehrer	City of Idaho Springs Planning Commission	
Ben	Moline		Molson/Coors
Frederick	Rollenhagen	Planning Department	Clear Creek County
Camp	Shwayder		
Jason	Siegel	City Council	City of Idaho Springs
Ed	Sigward	Water Operator	City of Idaho Springs
Shelley	Stanley		Northglenn
Tracy	Stokes	City Council	City of Idaho Springs
Martha	Tableman		Clear Creek County Open Space
Jane	Thomas	Acting Director of Emergency Management	Clear Creek County
Alan	Tiefenbach	City Planner	City of Idaho Springs
Kevin	Tohill		City of Arvada
Bert	Weaver	Director of Community Development	Clear Creek County
Dan	Wolf	Water/Wastewater Superintendent	City of Idaho Springs
Penny	Wu	District Ranger	U.S. Forest Service Clear Creek Ranger District
Frank	Young		Clear Creek County Open Space
Deb	Zack		Division of Reclamation, Mining and Safety



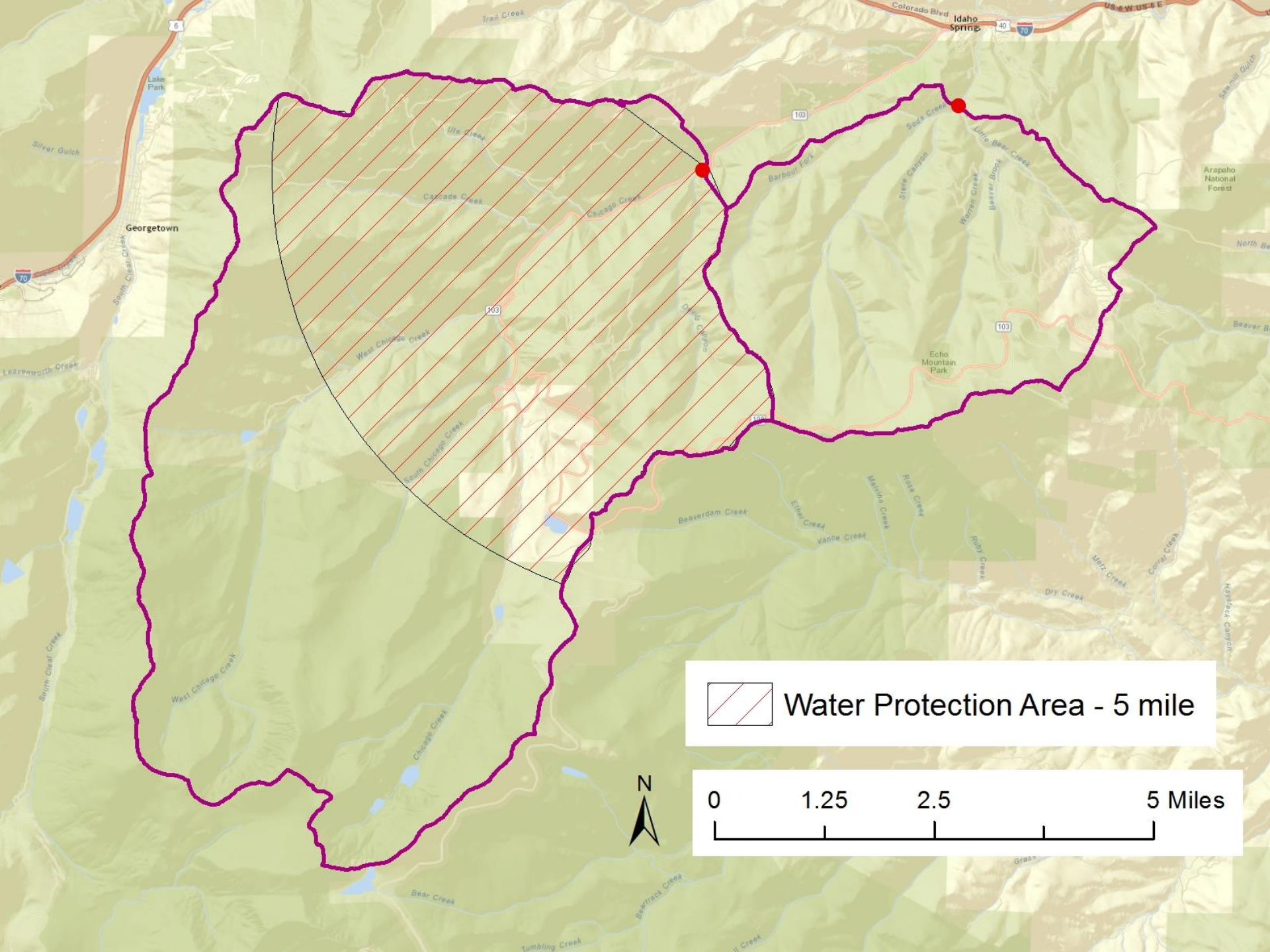
# City of Idaho Springs Source Water Protection Area (SWPA)



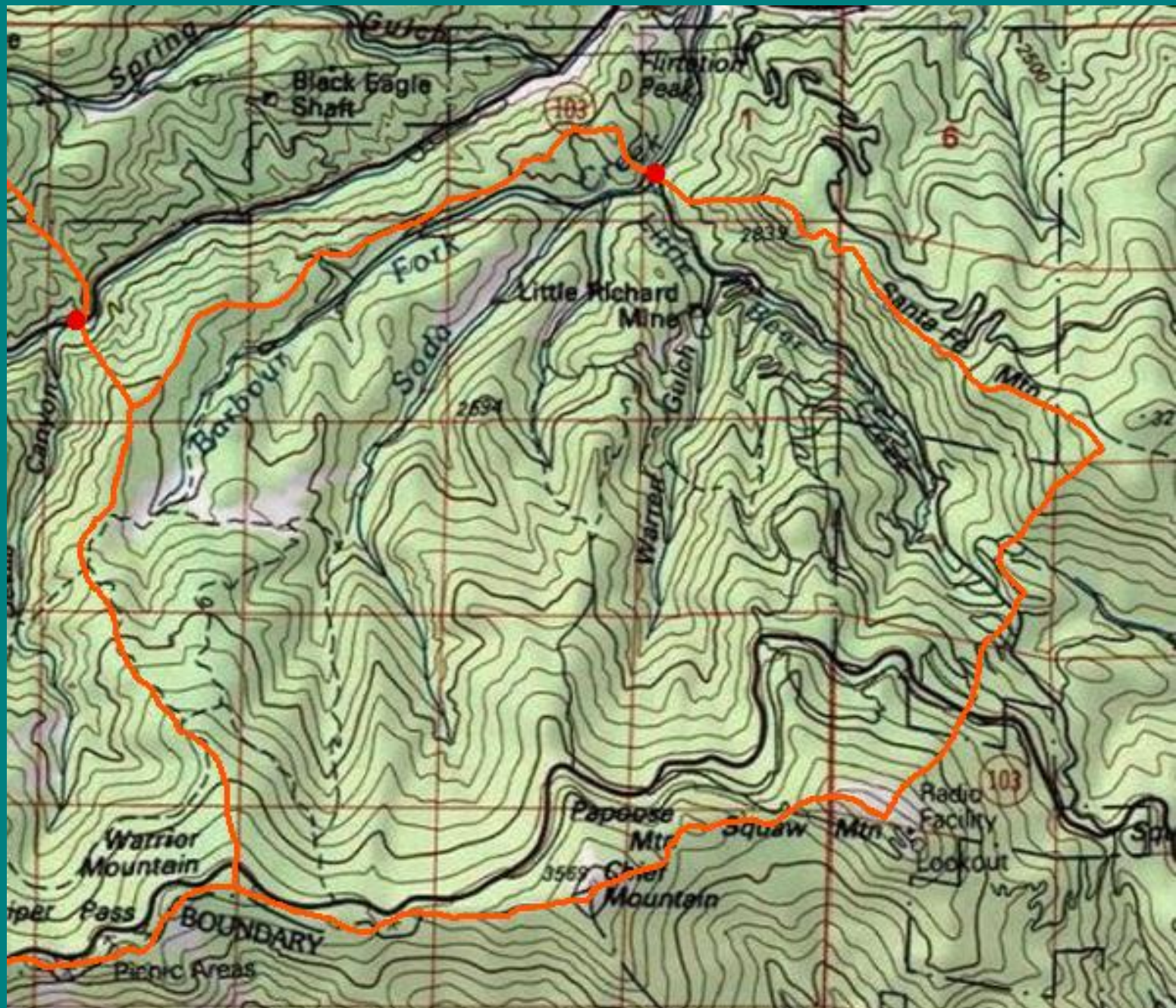




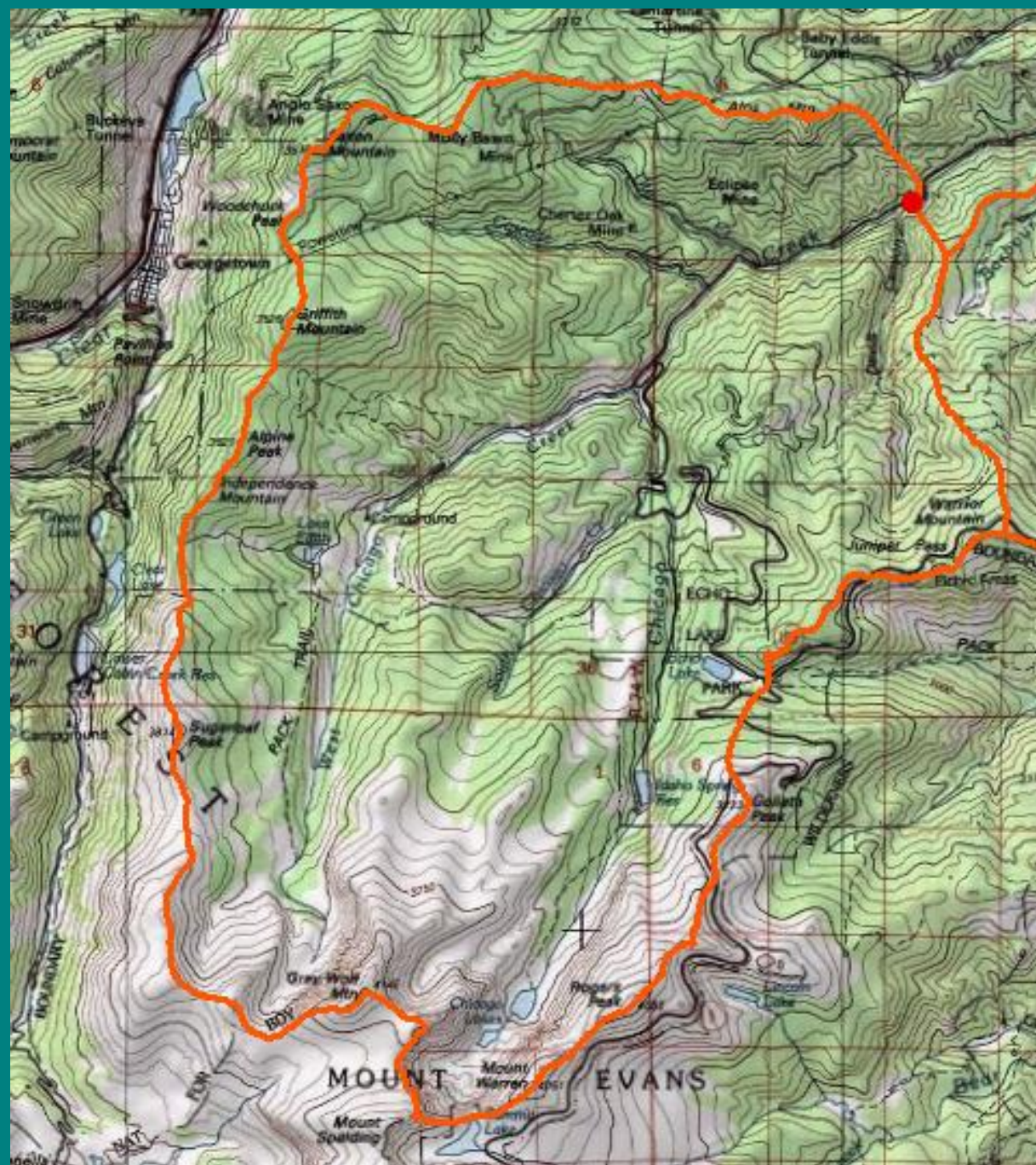


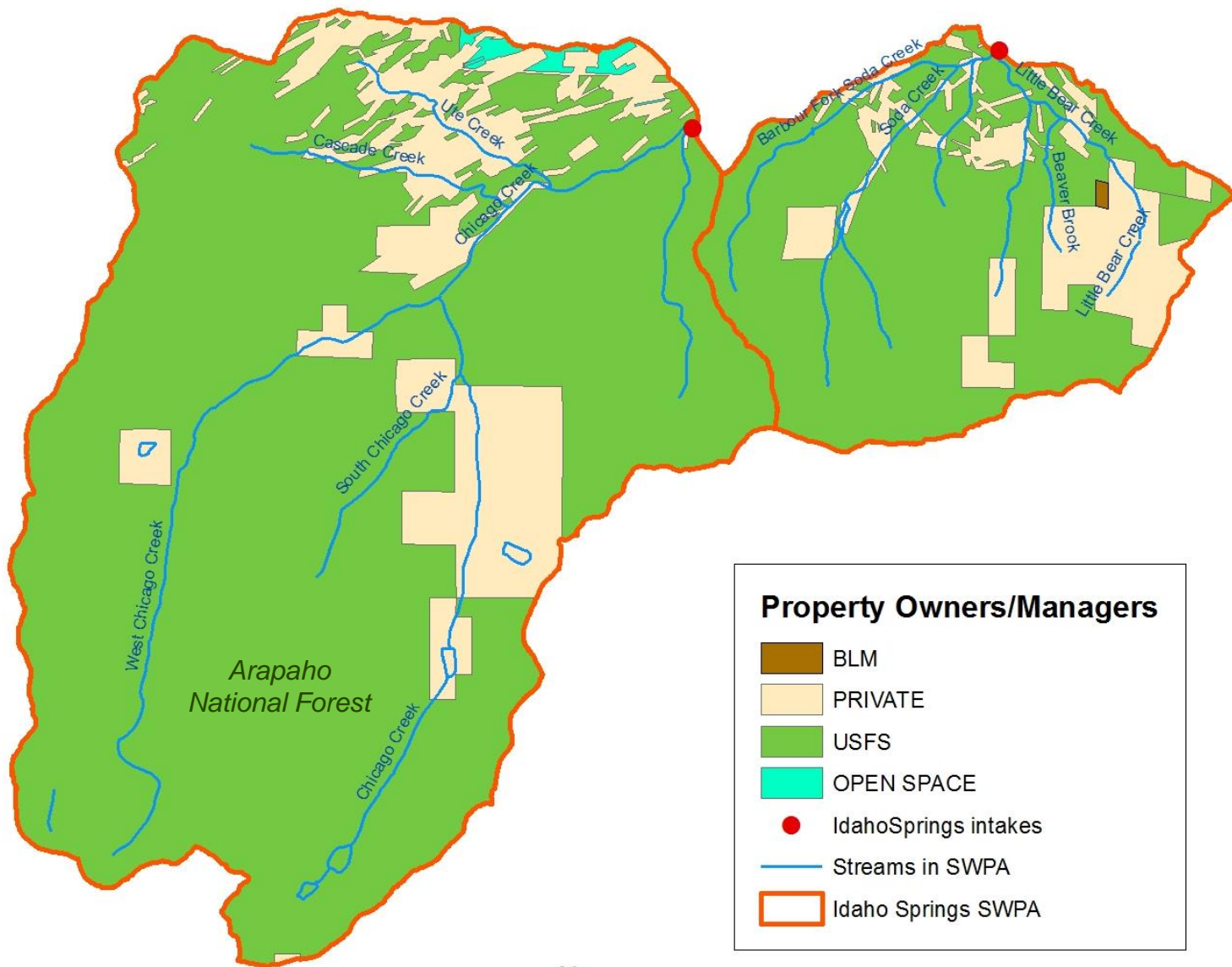






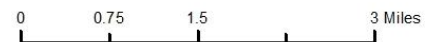
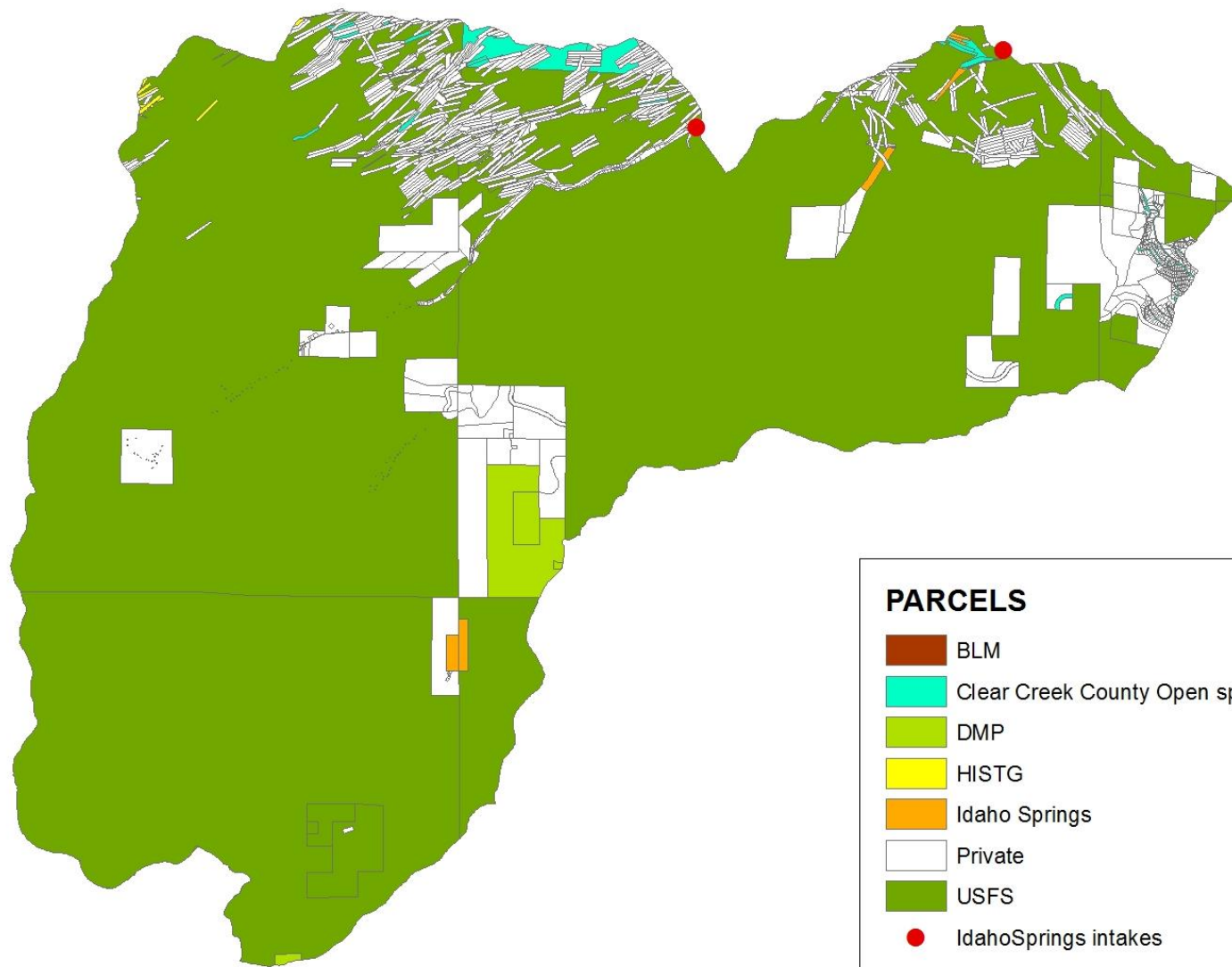






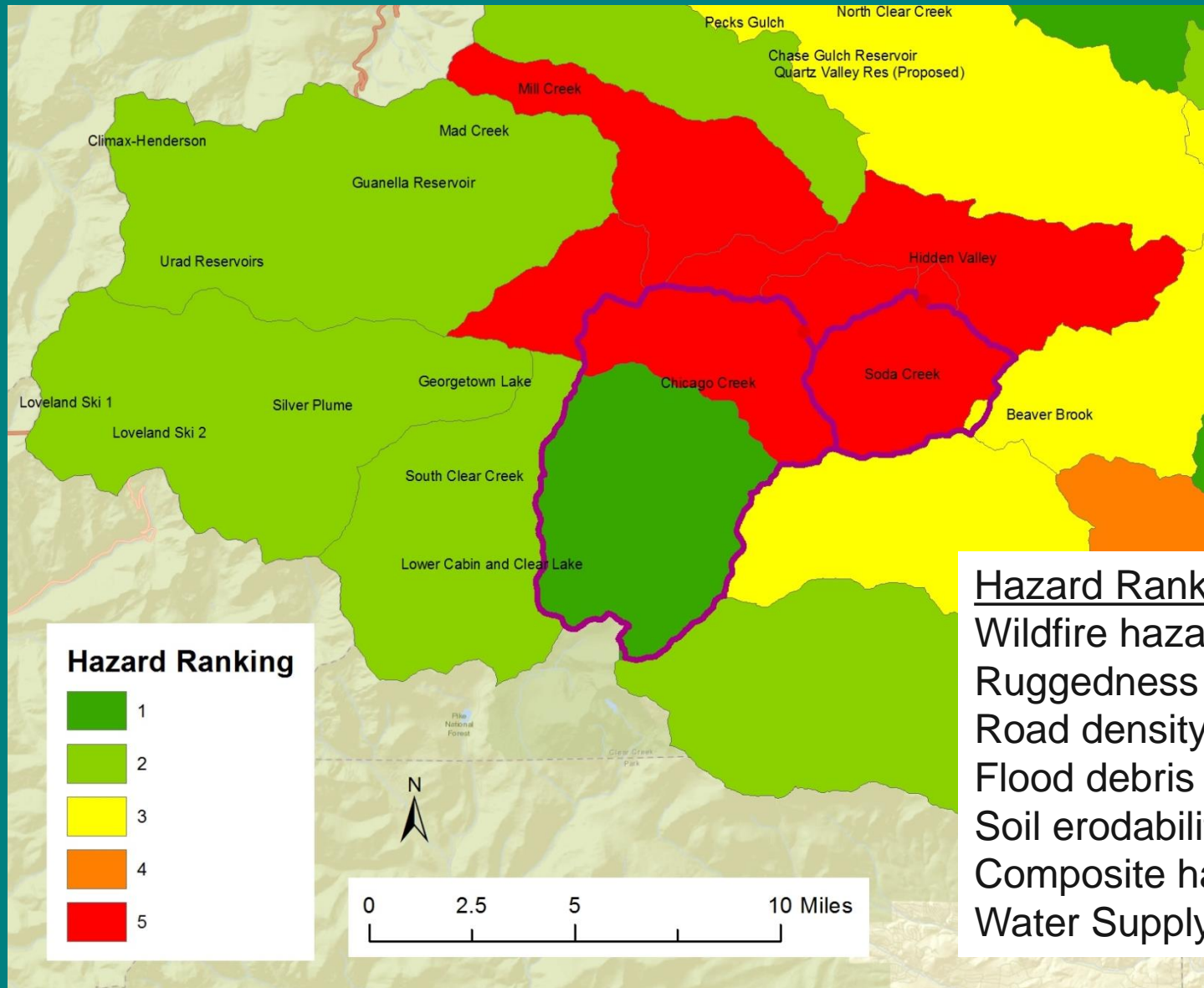
0 0.75 1.5 3 Miles





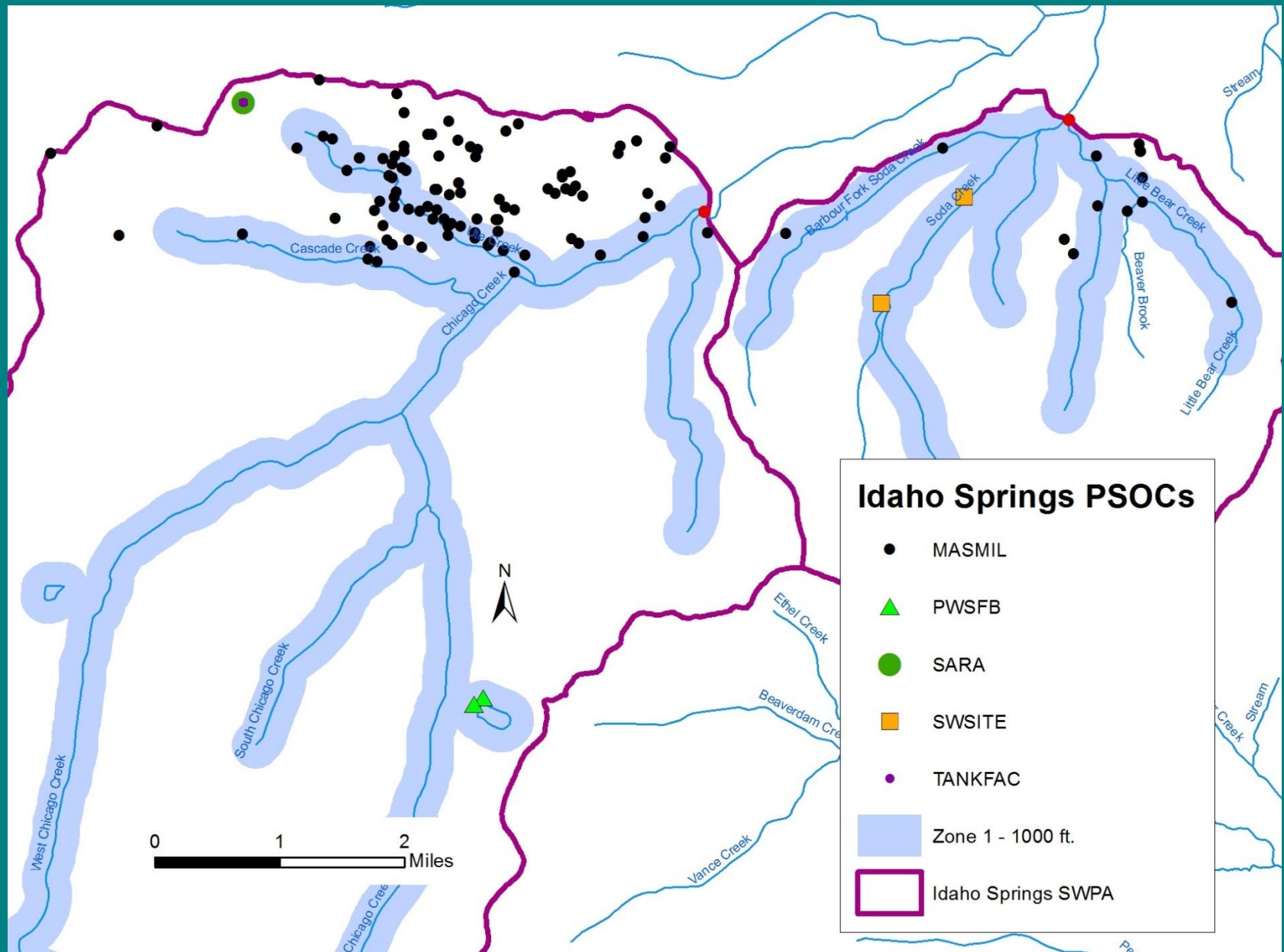
# Soda/Chicago Creek Wildfire Watershed Assessment: JW Associates Inc.

## Final Watershed Hazard Ranking: 1 & 5



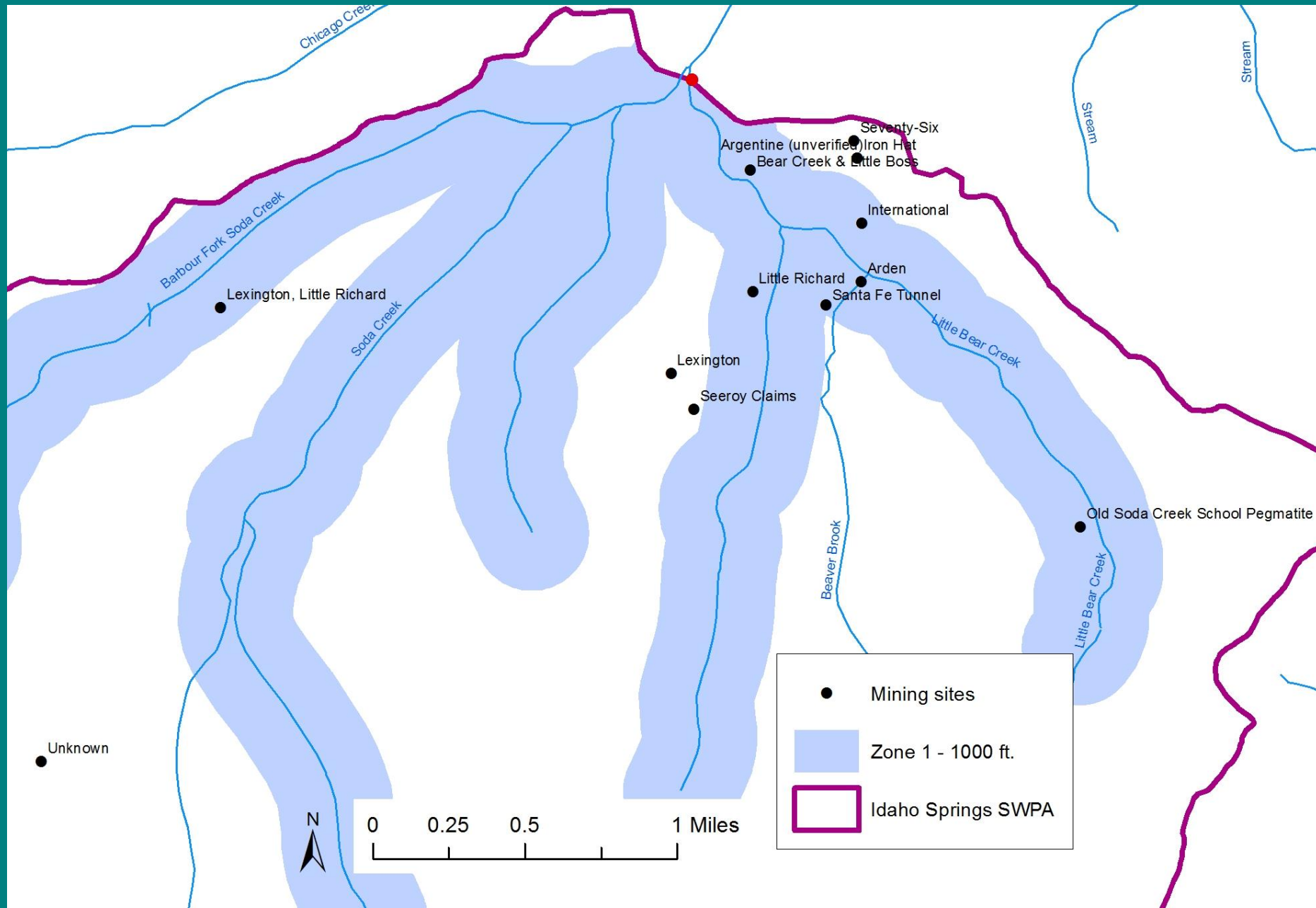
Hazard Rankings  
Wildfire hazard  
Ruggedness  
Road density  
Flood debris flow  
Soil erodability  
Composite hazard  
Water Supply rank

## Potential Sources of Contaminants (SWAP Report)

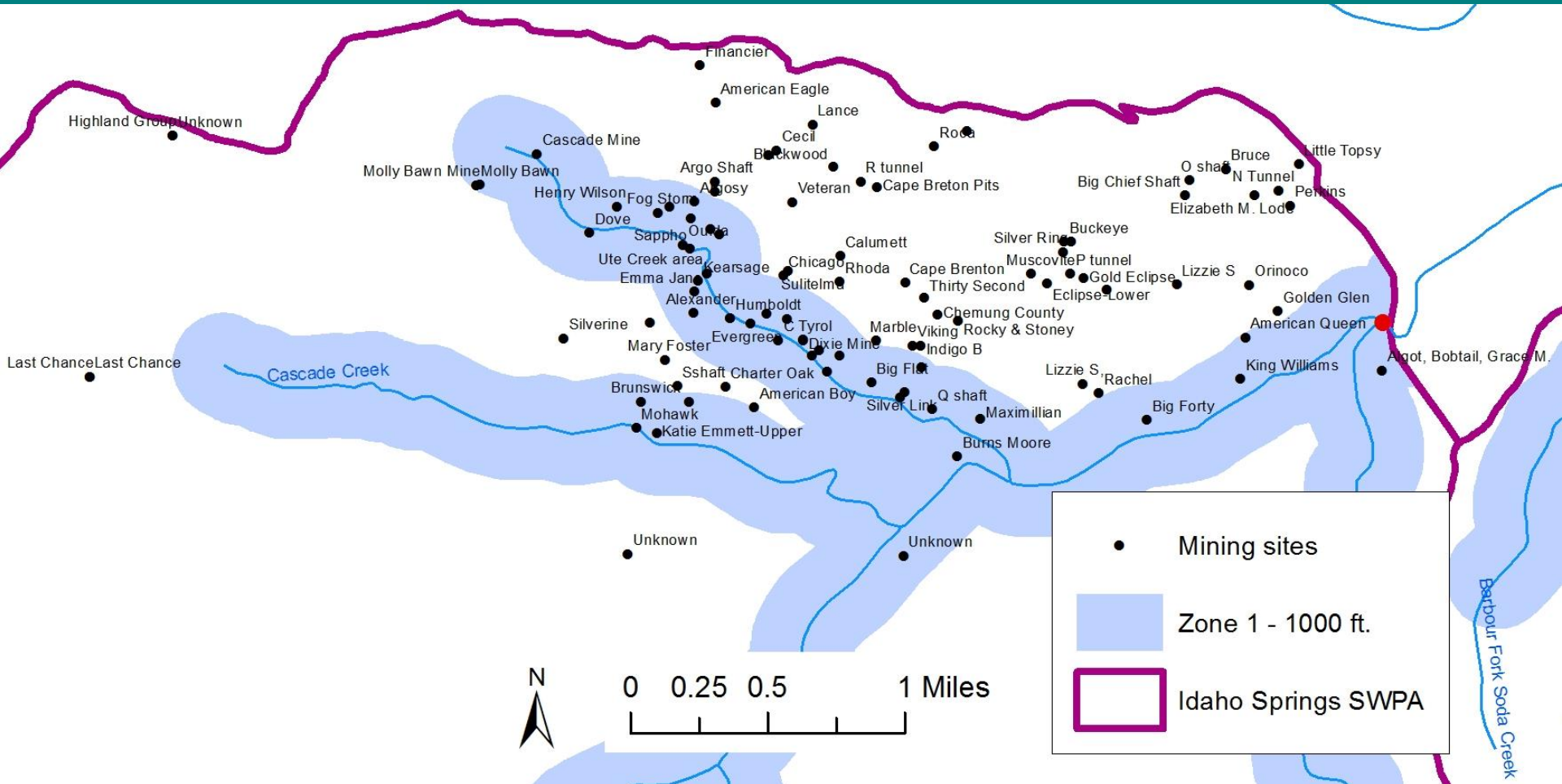




# Abandoned Mines Soda Creek Watershed (Source: USGS)



# Abandoned Mines Chicago Creek Watershed (Source: USGS)



# CDPHE SWAP Report for City of Idaho Springs: 2004

Total Susceptibility to contaminants - moderate

Discrete Contaminant Sources (moderately high to high)

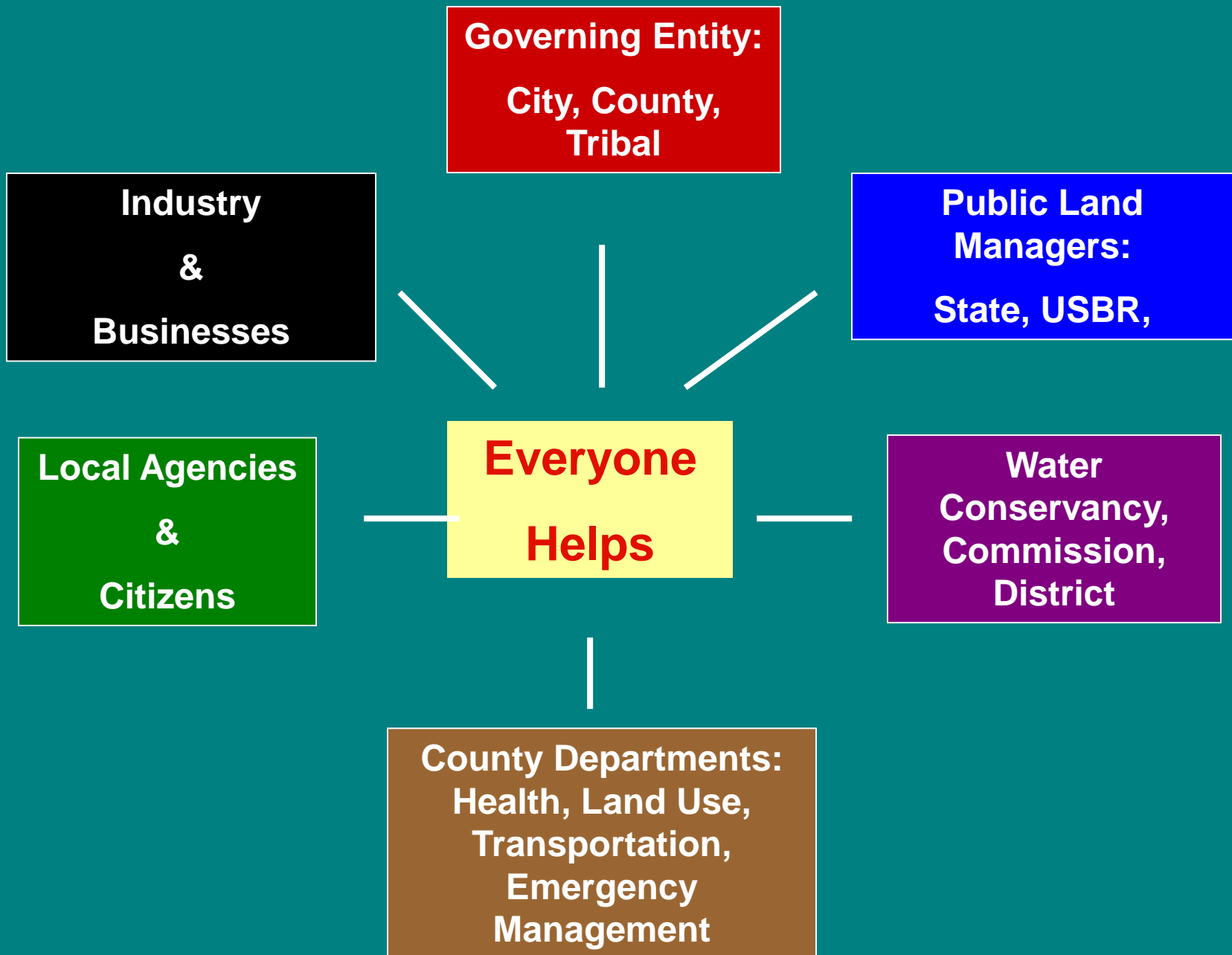
- EPA Superfund
- Hazardous Waste Generator
- Chemical Storage
- Storage Tanks
- Solid Waste
- Mines
- Other Facilities

Dispersed Contaminant Sources (moderate to high)

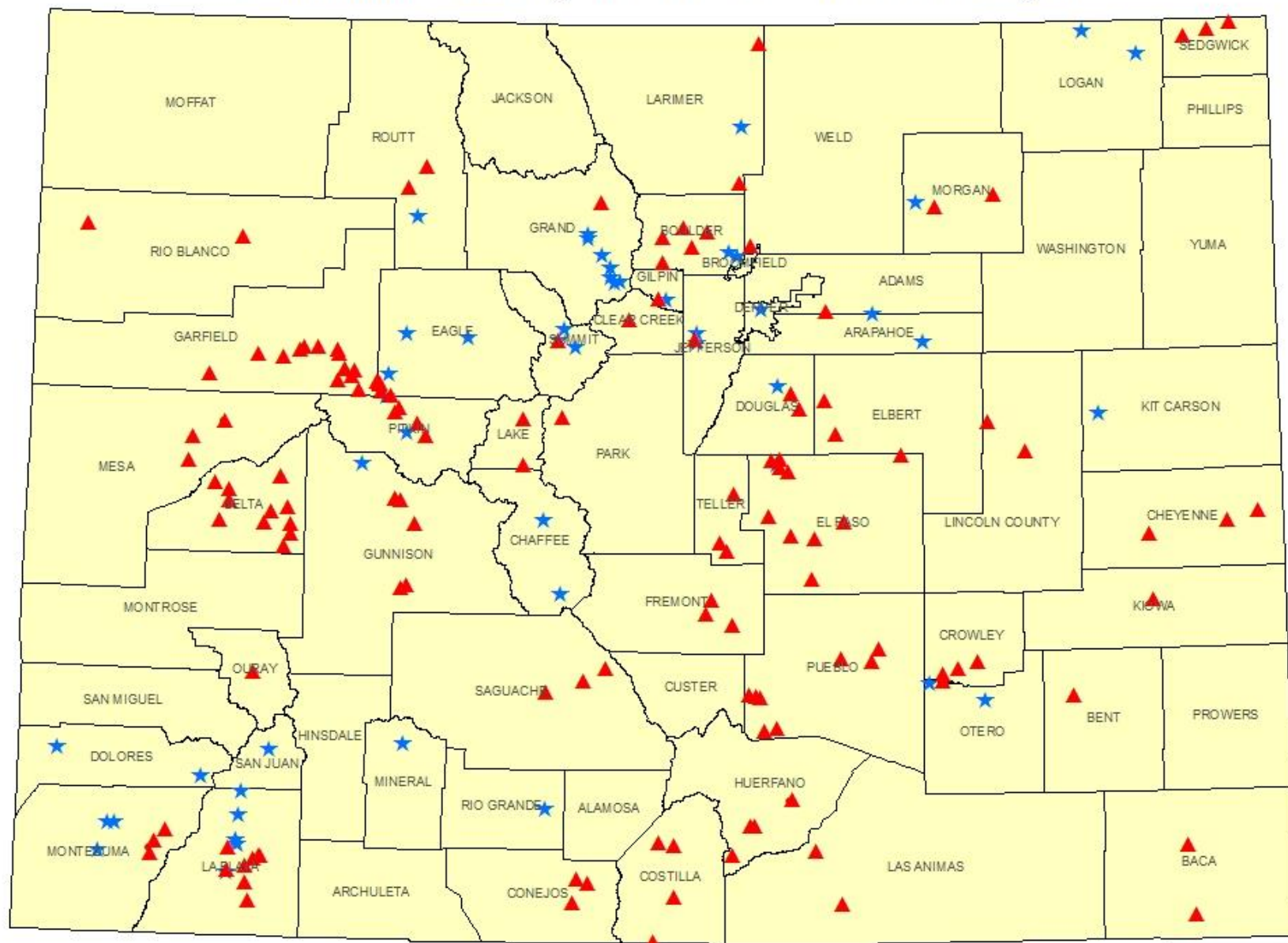
- Commercial/Industrial/Transportation
- Low Intensity Residential
- Forests
- Septics
- Roads

# What Measures are Currently in Place?

- Control of intakes
- Water quality monitoring
- Compliance with and enforcement of existing regulations (i.e. discharge permits)
- Sewer system / septic system programs
- Industrial waste discharges
- Waste management
- Household hazardous waste collection
- Land use planning (County and USFS)
- Watershed District Ordinance
- Upper Clear Creek Watershed Association
- Clear Creek Watershed Foundation






## Communities Working with CRWA's Source Water Program



Map developed by Colorado Rural Water Association  
176 W. Palmer Lake Dr. Pueblo West, CO 81007  
719-545-6748 [www.crwa.net](http://www.crwa.net)  
03/31/2015



### Legend

-  Completed SWPPs  
 SWPPs in Progress  
 County Boundaries



# Completed Source Water Protection Plans: 154

Academy WSD	Crowley County Water Assoc.	Jamestown	Ordway	Trinidad
Aguilar	Crowley County WS	Julesburg	Ovid	TriView Metro District
Alma	Cuchara WSD	Kings Row HOA	Paonia	TriView WD
Animas Water Company	Deerwood Service Company	Kit Carson	Parachute	Upper Surface Creek DWUA
Arapaho Water Company	Durango	K-V HOA	Park Center WD	Valley View Hot Springs
Aspen	Durango - Animas	Lake Creek MD	Parkville WD	Victor
Aspen Mesa HOA	Durango LaPlata County	LaJara	Peezt, Town of	Walsenburg
Avondale WSD	Airport	Las Animas	Pine Brook WD	Ward
Basalt	Eads	LaVeta	Pine Drive WD	Westbank Mesa HOA
Beulah Water Works District	Edgemont Ranch MD	Left Hand WD	Pitkin Mesa Pipeline Co.	Westbank Ranch HOA
Black Bear Lodge	Elizabeth	Limon	Powderhorn Ski Area	Wigwam Mutual Water
Blanca	El Rancho Florida WD	Little Elk Creek HOA	Prairie View Subdivision	Company
Blue Sky Ranch	Elbert WSD	Little Thompson Water District	Purgatory MD	Win Mar Cottages
Bone Mesa	Ellcott Plaza	Mancos	Ramah	WJ Ranch MD
Brush	Erie	Mancos Rural Water Co.	Rangely	Woodmoor WDS
Campo	Evergreen Metro	Manitou Springs	Red Table Acres HOA	Woody Creek HOA
Canon City	Falls Creek Ranch	Meeker	Ridgway	Yampa
Canyon Creek Estates HOA	Florence	Meridian Lake Park	Rifle	Youtsey WC
Carbondale	Forest View Acres WD	Mesa Cortina WSD	Romeo	
Castlewood Canyon State Park	Forrest Groves Estates HOA	Mesa Verde National Park	Rye	
Cattle Creek WUA	Fowler	Mesa WDS	Saguache	
Cedaredge	FreemanCreek Pipeline Assoc	Mid Colorado Investment	San Luis WSD	
Central City	Ft. Garland WSD	Mitchell Cooper Ditch & Pipe	Sanford	
Cheyenne Wells	Garcia Domestic WUA	Morgan County Quality WD	Sedgwick	
ChristLife Community Church	Gateway MD	Mt. Crested Butte WSD	Silt	
Coalby Domestic Water Co.	Georgetown	Nederland	Silver Heights WSD	
Collbran	Glacier Club	New Castle	Silverton, Town of	
Colorado Centre MD	Glenwood Springs	Northern Colorado Water	Sopris Village HOA	
Colorado City MD	Goodman POA	Association	Springfield	
Colorado Mountain College	Gunnison	Oak Creek	St. Charles Mesa WD	
Colvig Silver Camps	Gunnison County	Oak Meadows Service	Strasburg	
Crawford	Hermosa MHV	Company	Stratmoor Hills WD	
Crawford Mesa WA	Hotchkiss	Oak Meadows Water	Stucker Mesa	
Creede	Huajatola Valley Inc.	Olney Springs	Tabernash Meadows WSD	
Crested Butte South MD	Hugo	Orchard City	Talbott Enterprises, Inc.	

## In Progress Source Water Protection Plans: 48

Akron, Town of	Garfield County/CCE HOA	Orchard Estates
Black Hawk, City of	Granby Silver Creek WWW	Rockvale, Town of
Boulder, City of	Authority	Rocky Ford, Town of
Branson, Town of	Granby, Town of	Sage WUA
Buffalo Mountain MD	Grand County WSD #1	Shannon WSD
Cragmont Water	Gypsum, Town of	Shawnee WCA
Crestone, Town of	Hamilton Creek MD	Simla, Town of
Crook, Town of	Homestead Water Company	Snowmass WSD
Dallas Creek WC	Idaho Springs, City of	Spanish Peaks Village Tract II WA
Deer Trail	Lafayette, City of	Spring Park Meadows HOA
Denver Water	La Junta, City of	Telluride, Town of
East Dillon WD	Marble WC	Wiggins, Town of
Flagler, Town of	Mesa Antero WA	Winter Park Ranch WSD
Fleming, Town of	Monte Vista, City of	Winter Park WSD
Forest Hills Metro District	Monument, Town of	YMCA Snow Mountain Ranch
Fort Collins, City of	Moraine Park WS	
Fraser, Town of	Ophir, Town of	





# Next Meeting Date

Mark Williams, CRWA  
mark@jimtown.org